

Tentative Workshop Program

S.No	Time	Presentor	Title	Session
1	09:00	Organizors	Introduction	
2	09:05	Prof. Roland S. Johansson <i>Umeå University, Sweden</i>	tbd	Human Sense of Touch (Invited)
3	09:45	Prof. Vincent Hayward <i>Université Pierre et Marie Curie, Paris, France</i>	Physically based Haptics	Human Sense of Touch (Invited)
	10:25	Break		
4	10:45	Prof. Angelo Arleo <i>Université Pierre et Marie Curie, Paris, France</i>	Fast encoding/decoding of haptic microneurography data based on first-spike latency + Encoding/Decoding of spatiotemporal signals from an artificial touch sensor	Human Sense of Touch (Invited)
5	11:15	D'Alonzo M., Beccai L. *, Alan Wing+, Carrozza M.C. <i>ARTS Lab, SSSUP, Pontedera, Italy</i> <i>*Center for Micro-BioRobotics, Italian Institute of Technology (IIT), Pontedera, Italy</i> <i>+ Behavioural Brain Sciences Centre, University of Birmingham, Birmingham, UK</i>	Human Tactile Studies on Discrimination Threshold for Biomimetic Force Sensitive Artificial Fingertip Development	Human Sense of Touch
6	11:30	Georges Debrégeas, Julien Scheibert+, Alexis Prevost <i>Laboratoire de Physique Statistique, CNRS/ENS/UPMC, Paris, France</i> <i>+Physics of Geophysical Processes, University of Oslo, Oslo, Norway</i>	The role of skin topography in tactile transduction of fine textures	Human Inspired Tech.
7	11:45	D.D. Damian, M. Cadonau, K. Dermitzakis, A.H.-Arieta, R. Pfeifer <i>AI Lab, Univ. of Zurich, Switzerland</i>	Grip Stabilization of a Robot Hand through a Ridged Artificial Skin	Human Inspired Tech.
8	12:00	N. Wettels, J.A. Fishel, Z. Su, C.H. Lin, and G.E. Loeb <i>Department of Biomedical Engineering, Univ. of Southern California, Los Angeles, CA USA</i>	Multi-modal Synergistic Tactile Sensing	Human Inspired Tech.
9	12:15	Dr. Lorenzo Natale <i>Italian Institute of Technology, Genova, Italy</i>	A sensitive approach to grasping	Tactile Utilization (Invited)
	12:40	Lunch		
10	13:30	Prof. Vladimir Lumelsky <i>NASA, University of Maryland, USA</i>	Whole-Body Robot Sensing Is Prerequisite for Human-Robot Interaction and Teams	Tactile Utilization (Invited)

11	14:15	A. Morales, M. Prats, J. Felip, E. Chinellato, B. Grzyb, and A. P. del Pobil <i>Robotic Intelligence Lab. Dept. of Computer Science & Engineering Universitat Jaume I, Castellón, Spain</i>	Experiments on improving robust grasping and manipulation through tactile and contact-based sensing	Tactile Utilization
12	14:30	Campus C*, Brayda L*, Rodriguez G+, Chellali R* <i>*Departement of Telerobotics & Applications, Italian Institute of Technology, Genova, Italy +Clinical Neurophysiology, Dept of Neurosciences, Ophthalmology and Genetics, University of Genova, Italy</i>	Evaluating visuo-tactile sensory substitution for navigation in virtual worlds: preliminary europsychological assessment and results on a tactile-based interface	Tactile Utilization
13	14:45	Amirabdollahian F, Robins B, Dautenhahn K. Adaptive Systems Research Group, School of Computer Science, University of Hertfordshire, Hatfield, UK.	Robotic Skin Requirements Based on Case Studies on Interacting with Children with Autism	Tactile Technology
14(i)	15:00	David Silvera Tawil, David Rye and Mari Velonaki <i>Centre for Social Robotics / Australian Centre for Field Robotics, The Univ. of Sydney, Sydney, Australia</i>	Artificial Skin for Human-Robot Interaction	Poster Teaser
14(ii)		A. Pitti *, H. Alirezaei+, Y. Kuniyoshi*+ <i>*ERATO Synergistic Intelligence Project, JST, Japan +Lab. for Intell. Systems & Informatics, Dept. of Mechano-Informatics, Grad. School of Information Sc. & Tech, Univ. of Tokyo, Japan.</i>	Modeling the Human Sense of Touch and Agency in Multi-Modal Networks of Spiking Neurons	Poster Teaser
14(iii)		V. Sukhoy, R. Sahai, J. Sinapov and A. Stoytchev <i>Developmental Robotics Laboratory, Iowa State University, USA</i>	Vibrotactile Recognition of Surface Textures by a Humanoid Robot	Poster Teaser
14(iv)		M. Schöpfer, M. Pardowitz, H. Ritter <i>Faculty of Technology, Neuroinformatics Group, Bielefeld University, Germany</i>	Evaluation of Tactile Features for Object Categorization	Poster Teaser

14(v)		A. Persichetti, F. Vecchi, N. Vitiello, T. Lenzi, and M. C. Carrozza <i>ARTS Lab, Scuola Superiore Sant'Anna, Pontedera, Italy</i>	Skillsens: conformant and robust sensing skin	Poster Teaser
14(vi)		F. D. Libera*, T. Minato*, H. Ishiguro*+, E. Pagello*, and E. Menegatti* <i>*Dept of Information Engg., University of Padova, Italy</i> <i>*ERATO, Japan Science & Tech. Agency, Osaka, Japan</i> <i>+Dept of System Innovation, Osaka University, Japan</i>	Teaching Motions by Touching	Poster Teaser
14(vii)		F. V. Verdú, Ó. Oballe, M. J. Barquero, D. Bravo, and J. A. S. Durán <i>Department of Electronics, University of Málaga, Spain</i>	Hardware for Piezoresistive Tactile Sensors	Poster Teaser
14(viii)		M. Schöpfer, C. Schürmann, F. Schmidt, M. Pardowitz, Helge Ritter <i>Faculty of Technology, Neuroinformatics Group, Bielefeld University, Germany</i>	Handling of Deformable Material Using Tactile Sensors in a Bimanual Tactile Information Scenario	Poster Teaser
14(ix)		P. Cosseddu^{1,2}, L. Basiricò¹, A. Bonfiglio^{1,2} <i>¹Electrical & Electronic Engg., University of Cagliari, Italy</i> <i>² S3 nanoStructures and bioSystems at Surfaces, CNR-INFM, Modena, Italy</i>	Organic Field Effect Transistors based mechanical sensors for tactile transduction	Poster Teaser
14(x)		M. Gori*, A. Tomassini*, D. Burr+, G. Sandini+* & C. Morrone** <i>+* Istituto Italiano di Tecnologia, Genoa, Italy.</i> <i>* Università Vita-Salute San Raffaele, Milano.</i> <i>+ Dipartimento di Psicologia, Università Degli Studi di Firenze, Florence, Italy.</i> <i>**Dipartimento di Scienze Fisiologiche. Facoltà di Medicina, Università di Pisa, Italy.</i>	Neural timing mechanisms in the tactile domain	Poster Teaser
	15:20	Poster + Break		
15	15:50	Prof. Giorgio Cannata <i>DIST- University of Genova, Italy</i>	ROBOTSKIN - Skin-Based Technologies and Capabilities for Safe, Autonomous & Interactive Robots	Tactile Technology (Invited)

16	16:20	H. Alirezaei+, A. Nagakubo++, Y. Kuniyoshi+ <i>+Dept. of Mechano-Informatics, Graduate School of Information Science & Tech. Univ. of Tokyo, JAPAN</i> <i>++National Institute of Advanced Industrial Science and Technology, Tsukuba, JAPAN</i>	Development of a highly stretchable tactile sensor with easy Wearability	Tactile Technology
17	16:35	M.W. Strohmayer and P. van der Smagt <i>Institute of Robotics and Mechatronics, DLR - German Aerospace Center, Wessling, Germany</i>	The DLR Flexible Tactile Sensor for Robotic Hands	Tactile Technology
18	16:50	Beccai L.1,2, Oddo C.M.1, Cipriani, C1., Carrozza M.C. 1 <i>1ARTS Lab, Scuola Superiore di Studi Universitari e di Perfezionamento Sant'Anna, Pontedera, Italy</i> <i>2Center for Micro-BioRobotics, Italian Institute of Technology (IIT), Pontedera, Italy</i>	A biorobotic approach for artificial touch: from the development of a MEMS sensor to the tactile array integration into an actuated finger	Tactile Technology
19	17:05	Markus Fritzsche <i>Robotic Systems, Fraunhofer IFF, Magdeburg, Germany</i>	An Artificial Skin for Safe Human-Robot-Interaction	Tactile Technology
20	17:20	Grassia L+, Pirozzi S* <i>+DIAM - Seconda Univ. di Napoli, Aversa, Italy</i> <i>*DII - Seconda Univ. di Napoli, Aversa, Italy,</i>	Tactile sensor based on LED-Phototransistor couples	Tactile Technology
21	17:35	C. Schürmann, R. Haschke, H. Ritter <i>CITEC, AG NI, University of Bielefeld, Germany</i>	Modular high speed tactile sensor system with video interface	Tactile Technology
22	17:50	Discussion and Concluding Remarks		